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DATE: Wednesday, January 28, 2004

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		<i>DB=USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L3	L2 and biosynthes\$	31
<input type="checkbox"/>	L2	L1 and galilaeus	98
<input type="checkbox"/>	L1	anthracyclin\$ or aclacinomycin\$	3052

END OF SEARCH HISTORY

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STN Search Summary

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(FILE 'HOME' ENTERED AT 14:52:37 ON 28 JAN 2004)

FILE 'CAPLUS' ENTERED AT 14:52:55 ON 28 JAN 2004

L1 6792 S ANTHRACYCLIN? OR ACLACINOMYCIN?
L2 122 S L1 AND GALILAEUS
L3 38 S L2 AND BIOSYNTHESIS?
L4 10 S L3 AND (GENE CLUSTER)
L5 28 S L3 NOT L4

=> d 1-10

L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:736279 CAPLUS
TI A **gene cluster** for rabelomycin **biosynthesis** of Streptomyces and its
use in generating novel angucyclines for drug screening
IN Palmu, Kaisa; Kunnari, Tero
PA Galilaeus Oy, Finland
SO PCT Int. Appl., 66 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002074800	A1	20020926	WO 2002-FI214	20020315
	FI 2001000553	A	20020920	FI 2001-553	20010319
	EP 1370578	A1	20031217	EP 2002-706805	20020315
PRAI	FI 2001-553	A	20010319		
	WO 2002-FI214	W	20020315		

L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:558724 CAPLUS
TI Cloning and characterization of Streptomyces **galilaeus aclacinomycins**
polyketide synthase (PKS) cluster
AU Raty, Kaj; Kantola, Jaana; Hautala, Anne; Hakala, Juha; Ylihonko,
Kristiina; Mantsala, Pekka
SO Gene (2002), 293(1-2), 115-122

L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:247509 CAPLUS
TI The **gene cluster** involved in **aclacinomycin biosynthesis** in
Streptomyces **galilaeus** and its use for genetic engineering
IN Ylihonko, Kristiina; Raty, Kaj; Hakala, Juha
PA Galilaeus Oy, Finland
SO PCT Int. Appl., 50 pp.

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371

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001023578	A1	20010405	WO 2000-FI819	20000925
	FI 9902085	A	20010329	FI 1999-2085	19990929
	EP 1133562	A1	20010919	EP 2000-960747	20000925
	JP 2003510081	T2	20030318	JP 2001-526960	20000925
PRAI	FI 1999-2085	A	19990929		
	WO 2000-FI819	W	20000925		

105
L4 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:702971 CAPLUS
TI A **gene cluster** from *Streptomyces galilaeus* involved in glycosylation of aclarubicin
AU Raty, K.; Kunnari, T.; Hakala, J.; Mantsala, P.; Ylihonko, K.
SO Molecular and General Genetics (2000), 264(1-2), 164-172

=> d 1-28

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L5 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:147550 CAPLUS
TI Elucidation of **anthracyclinone biosynthesis** by stepwise cloning of genes for **anthracyclines** from three different *Streptomyces* spp.
AU Kantola, Jaana; Kunnari, Tero; Hautala, Anne; Hakala, Juha; Ylihonko, Kristiina; Mantsala, Pekka
SO Microbiology (Reading, United Kingdom) (2000), 146(1), 155-163

L5 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:736723 CAPLUS
TI Hybrid **anthracyclines** for cancer therapy from genetically engineered *Streptomyces galilaeus*
IN Ylihonko, Kristiina; Hakala, Juha; Kunnari, Tero
PA Galilaeus Oy, Finland
SO PCT Int. Appl., 43 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 9958544	A1	19991118	WO 1999-FI385	19990510
	FI 9801062	A	19991114	FI 1998-1062	19980513
	EP 1000078	A1	20000517	EP 1999-923618	19990510
	EP 1000078	B1	20030730		
	JP 2002514399	T2	20020521	JP 2000-548348	19990510
✓	AT 246198	E	20030815	AT 1999-923618	19990510
	US 6399583	B1	20020604	US 2000-462671	20000111
PRAI	FI 1998-1062	A	19980513		
	WO 1999-FI385	W	19990510		

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L5 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:694329 CAPLUS
TI **Anthracycline biosynthesis** in *Streptomyces galilaeus*
AU Fujii, Isao; Ebizuka, Yutaka
SO Chemical Reviews (Washington, D. C.) (1997), 97(7), 2511-2523

L5 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1994:478168 CAPLUS
TI Isolation and characterization of **aclacinomycin A**-non-producing *Streptomyces galilaeus* (ATCC 31615) mutants
AU Ylihonko, Kristiina; Hakala, Juha; Niemi, Jarmo; Lundell, Juhani; Maentsaelae, Pekka
SO Microbiology (Reading, United Kingdom) (1994), 140(6), 1359-65

L5 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1992:565019 CAPLUS
TI Cloning of **aklavinone biosynthesis** genes from *Streptomyces galilaeus*
AU Tsukamoto, Naohiro; Fujii, Isao; Ebizuka, Yutaka; Sankawa, Ushio
SO Journal of Antibiotics (1992), 45(8), 1286-94

L5 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1991:3187 CAPLUS
 TI **Biosynthesis of anthracyclines:** enzymic conversion of aklanonic acid to aklavinone and e-rhodomycinone by **anthracycline**-producing streptomycetes
 AU Connors, Neal C.; Bartel, Paul L.; Strohl, William R.
 SO Journal of General Microbiology (1990), 136(9), 1887-94

L5 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:570816 CAPLUS
 TI **Biosynthesis of anthracyclinones:** biotransformation of aklaviketone
 AU Eckardt, K.; Schumann, G.; Wagner, C.; Stengel, C.; Ihn, W.; Novak, J.; Tresselt, D.
 SO Journal of Basic Microbiology (1989), 29(5), 277-9

L5 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:608024 CAPLUS
 TI **Biosynthesis of anthracyclines:** biotransformation of aklanonic acid by blocked mutants of Streptomyces **galilaeus** and Streptomyces peucetius
 AU Eckardt, K.; Schumann, G.; Stengel, C.; Ihn, W.; Tresselt, D.
 SO F.E.C.S. Int. Conf. Chem. Biotechnol. Biol. Act. Nat. Prod., [Proc.], 3rd (1987), Meeting Date 1985, Volume 4, 219-23 Publisher: VCH, Weinheim, Fed. Rep. Ger.

L5 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:507451 CAPLUS
 TI **Biosynthesis of anthracyclinones:** isolation of a new early cyclization product aklaviketone
 AU Eckardt, Klaus; Schumann, Gisbert; Tresselt, Dieter; Ihn, Wolfgang
 SO Journal of Antibiotics (1988), 41(6), 788-93

L5 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1986:568693 CAPLUS
 TI Biotransformation of aklanonic acid by blocked mutants of **anthracycline**-producing strains of Streptomyces **galilaeus** and Streptomyces peucetius
 AU Schumann, G.; Stengel, C.; Eckardt, K.; Ihn, W.
 SO Journal of Basic Microbiology (1986), 26(4), 249-55

L5 ANSWER 19 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1982:33294 CAPLUS
 TI **Biosynthesis of aklavinone and aclacinomycins**
 AU Kitamura, Iwao; Tobe, Hiroyasu; Yoshimoto, Akihiro; Oki, Toshikazu; Naganawa, Hiroshi; Takeuchi, Tomio; Umezawa, Hamao
 SO Journal of Antibiotics (1981), 34(11), 1498-500

L5 ANSWER 20 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1981:43852 CAPLUS
 TI **Biosynthesis of anthracycline antibiotics by Streptomyces galilaeus.** I. Glycosidation of various **anthracyclinones** by an **aclacinomycin**-negative mutant and **biosynthesis of aclacinomycins** from aklavinone
 AU Oki, Toshikazu; Yoshimoto, Akihiro; Matsuzawa, Yasue; Takeuchi, Tomio; Umezawa, Hamao
 SO Journal of Antibiotics (1980), 33(11), 1331-40

L5 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1981:43782 CAPLUS
TI **Biosynthesis** of **anthracycline** antibiotics by *Streptomyces galilaeus*.
II. Structure of new **anthracycline** antibiotics obtained by microbial
glycosidation and biological activity
AU Matsuzawa, Yasue; Yoshimoto, Akihiro; Oki, Toshikazu; Naganawa, Hiroshi;
Takeuchi, Tomio; Umezawa, Hamao
SO Journal of Antibiotics (1980), 33(11), 1341-7

L5 ANSWER 26 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1979:184828 CAPLUS
TI Genetic approach to the **biosynthesis** of **anthracyclines**
AU Blumauerova, M.; Kralovcova, E.; Mateju, J.; Hostalek, Z.; Vanek, Z.
SO Genet. Ind. Microorg., Proc. Int. Symp., 3rd (1979), Meeting Date 1978,
90-6. Editor(s): Sebek, O. K.; Laskin, Allen I. Publisher: Am. Soc.
Microbiol., Washington, D. C.
CODEN: 40JNA4
DT Conference; General Review